

Fig. 1

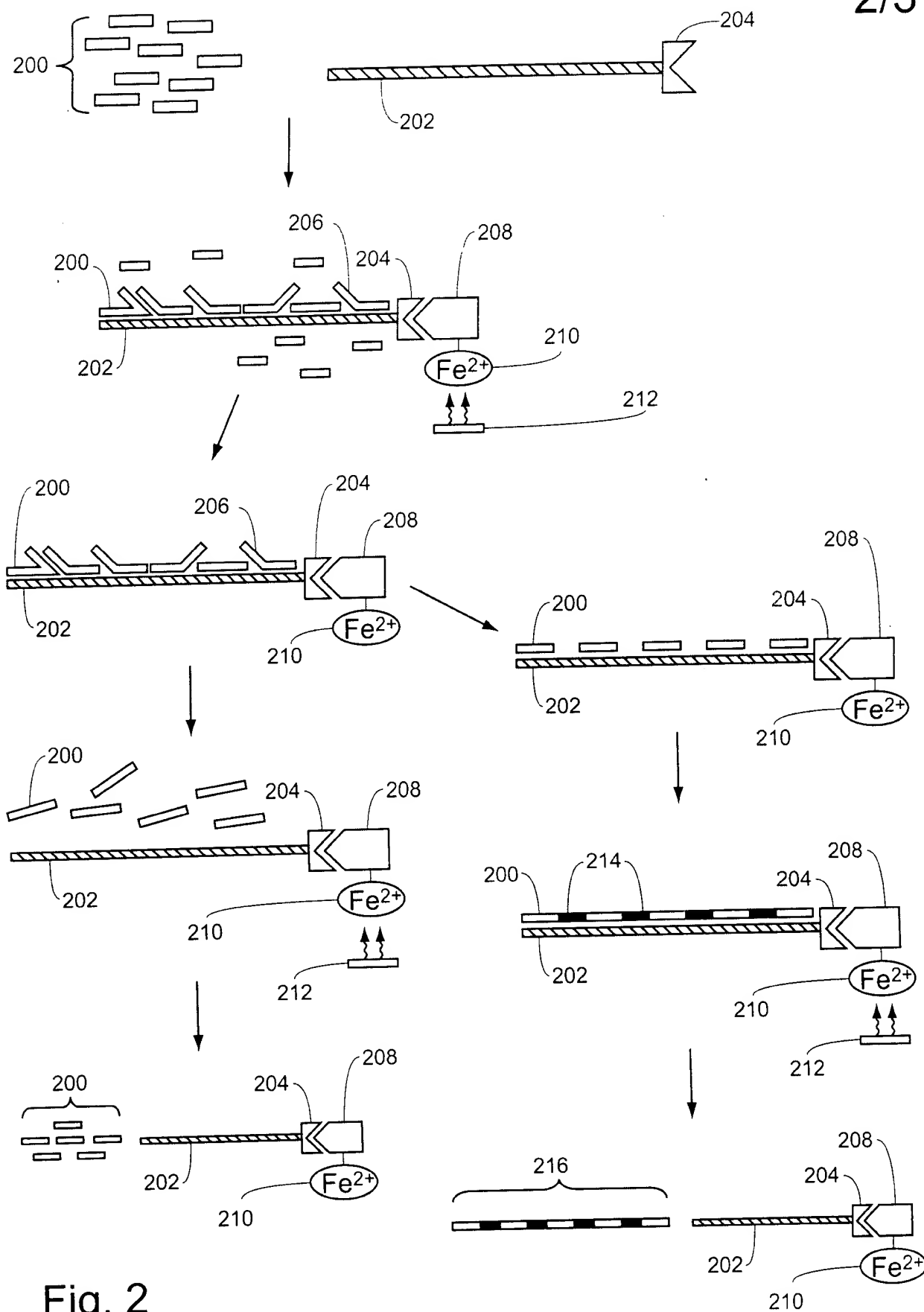


Fig. 2

3/3

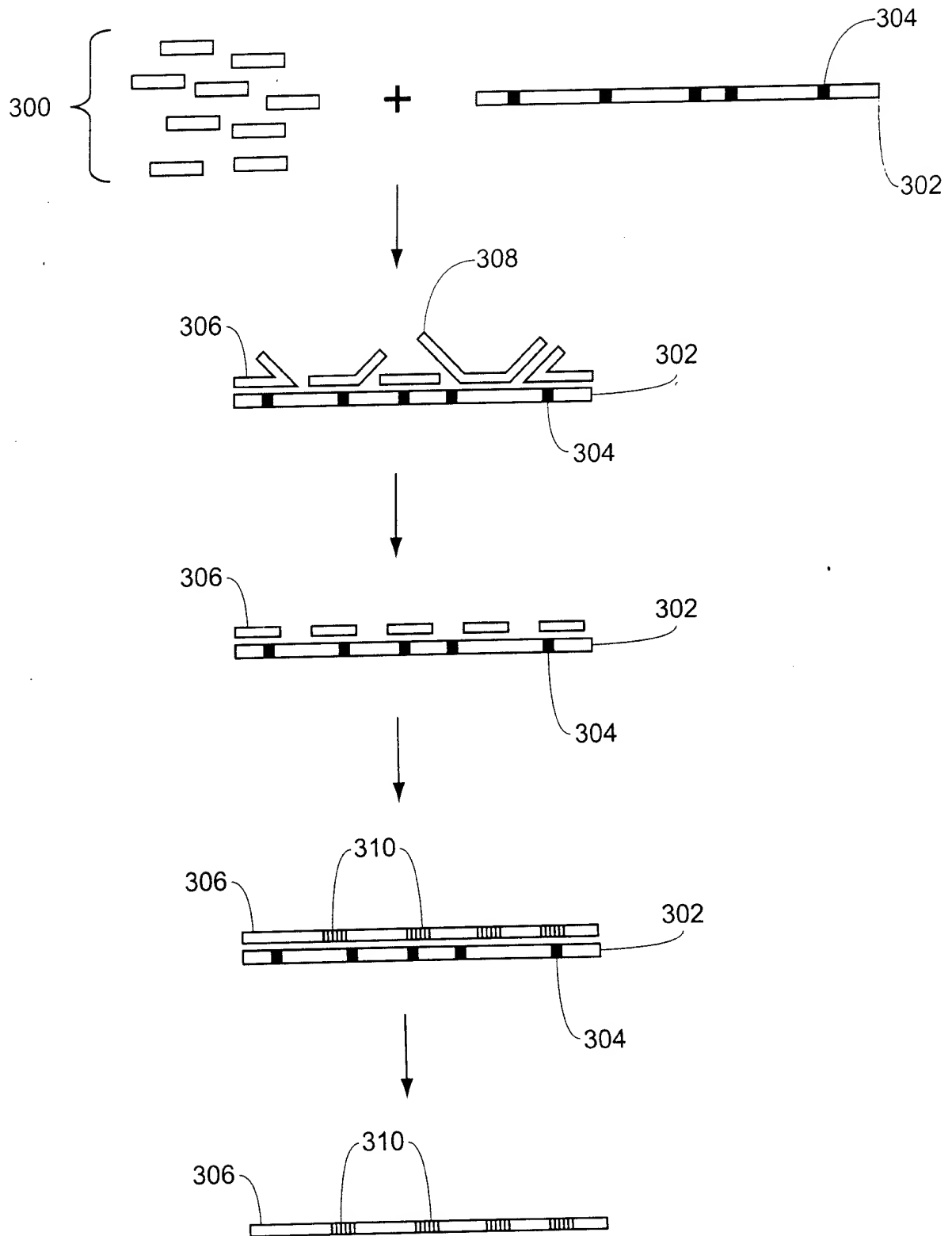


Fig. 3

09721507-44200
002277-2057260

Create Asymmetric
Single Strand Bias
For 2 Parents

Reanneal
(at low temp)

Nick Hairpins
(with Mung Bean Nuclease)

Degrade ssDNA

Fill in Gaps
(polymerase & Ligase)

Denature & Amplify

Chimeric Progeny
Clone or Repeat

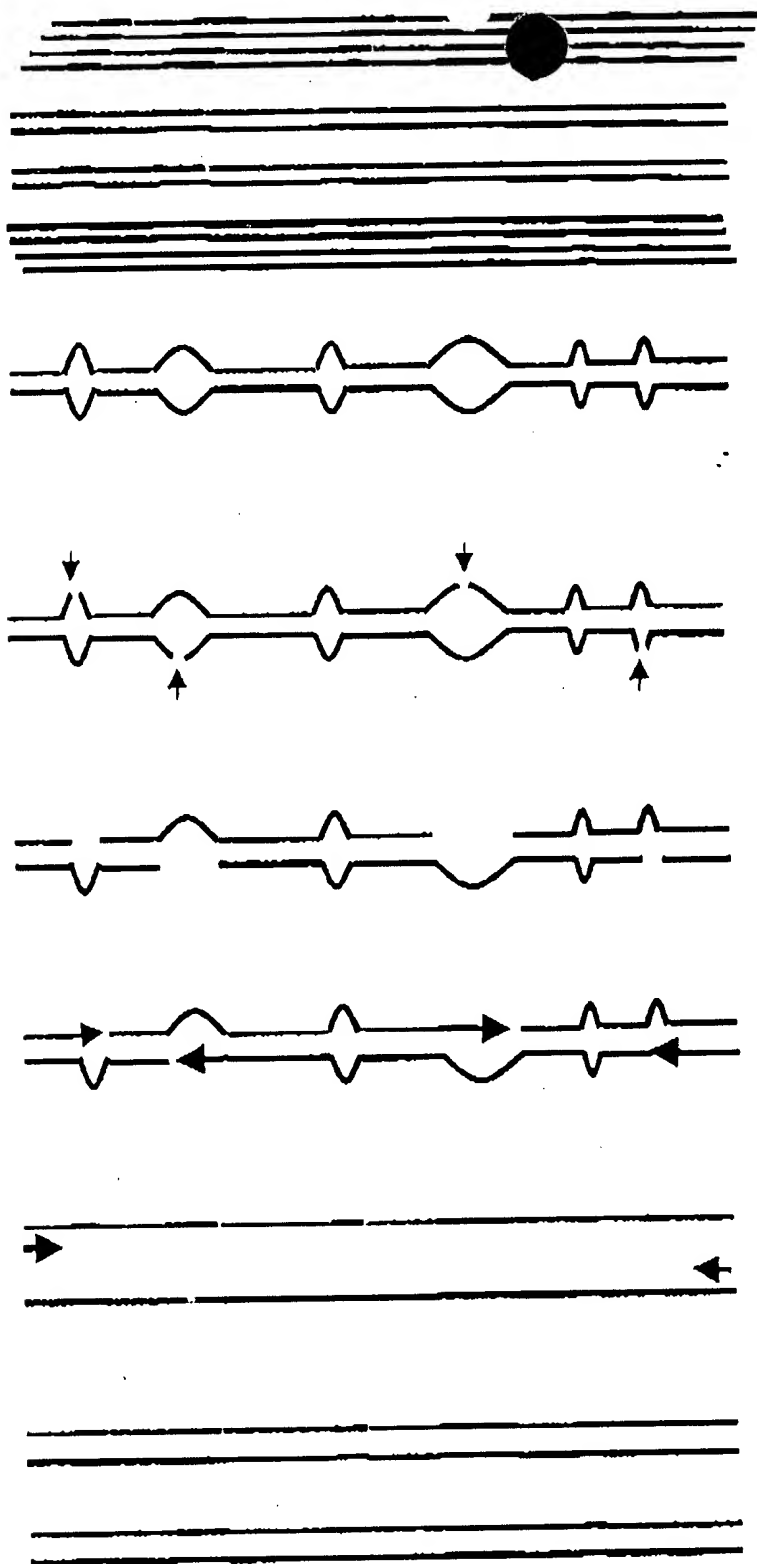
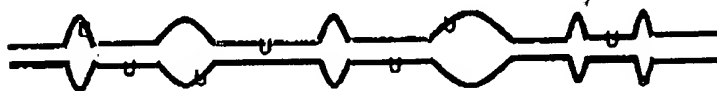


Figure 4

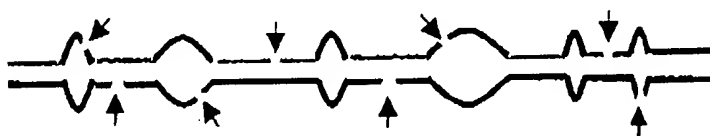
Create Asymmetric
Single Strand Bias
with Uracil Incorporation



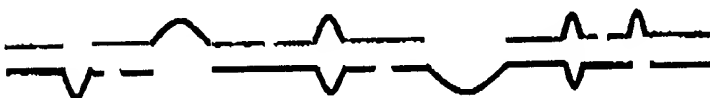
Reanneal
(at low temp)



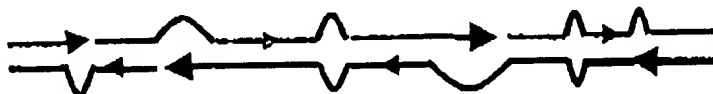
Nick
(with Uracil Glycosylase
& Endonuclease IV)



Degrade ssDNA



Fill in Gaps
(polymerase & Ligase)



Denature & Amplify



Chimeric Progeny
Clone or Repeat

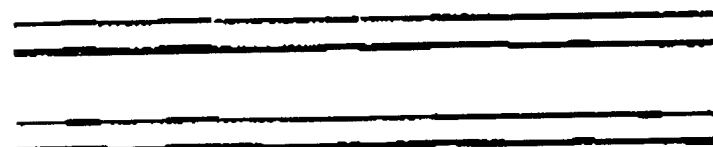


Figure 5

Sequence

181 xxxxxxxxxx xxxxxxgtga gaagcaaaaa attgtggatc agctgttgtg ttgcgttaac
 241 gttaatcttt acgatggcgt tcagcaacat gtctgcgcag gctgccgaa aaagcagtag
 301 agaaaagaaa tacattgtcg gatttaaca gacaatgagt gccatgagtt ccgccaagaa
 361 aaaggatgtt atttctgaaa aagcggaag gttcaaaa caatttaagt atgttaacgc
 421 ggcgcagca acattggatg aaaaagctgt aaagaattg aaaaagatc cgaagcgttc
 481 atatgtgaa gaagatcata ttgcacatga atatgcgcaa tctgttcctt atggcatttc
 541 tcaaatataa ggcgcgggtc ttcactctca aggtacaca ggctcagag taaaagtagc
 601 tgttatcgac agcggaattg actctctca tctgactta aacgtcagag cgggagcaag
 661 ctctgtacct tctgaaacaa acccatacca ggaagggcagt tctcacggtc cgcattgtagc
 721 cggtagcatt gccgctctta ataactcaat cgggtgtctg ggcgttagcc caagcgcac
 781 attatatgca gtaaaagtgc ttgattcaac aggaagcggc caatatagct ggattattaa
 841 cggcattgag tgggccattt ccaacaatat ggaatgttat aacatgagcc ttggcggacc
 901 tactggttct acagcgtga aacagctcgt tgacaaagcc gtttccagcg gtatcgtcgt
 961 tgctgccgca gccggaacg aaggttcac cggaaagcaca agcacagtcg gctaccctgc
 1021 aaaaatacct tctactattg cagtaggtgc ggtaaacagc agcaaccaa gagcttcatt
 1081 ctccagcgcg ggttctgagc ttgatgtgat ggtccttggc gtgtccatcc aaagcacact
 1141 tcctggaggc acttacggcg cttataacgg aacgtccatg gcgactcctc acgttgccgg
 1201 agcagcagcg ttaattcttt ctaagcacc gacttggaca aacgcgcaag tccgtgacgc
 tttagaaaag actgcaacat atcttggaaa ctcttctac tatggaaaag ggttaataca
 1261 cgtacaagca gctgcacaat aaxxxxxxxxxx xxxxxxxxxx

Figure 6

D E L I D E

TRANSFER# 13 12 11 10 9 8 7 6 5 4 3 2 1

Figure 7A

5' XXX-3'

5' XXX XXX

5' XXX XXX XXX

5' XXX XXX XXX XXX

5' XXX XXX XXX XXX XXX

5' XXX XXX XXX XXX XXX XXX

5' XXX XXX XXX XXX XXX XXX XXX

5' XXX XXX XXX XXX XXX XXX XXX XXX

5' XXX XXX XXX XXX XXX XXX XXX XXX XXX

5' XXX XXX XXX XXX XXX XXX XXX XXX XXX XXX

Figure 7B

002277 4057260

CODON #												
1	2	3	4	5	6	7	8	9	10	11	12	13
5'-XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	NNC-3'
5'-XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5'-XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	NNC	XXX	XXX
5'-XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	NNC	XXX	XXX
5'-XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	NNC	XXX	XXX	XXX
5'-XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	NNC	XXX	XXX	XXX	XXX
5'-XXX	XXX	XXX	XXX	XXX	XXX	XXX	NNC	XXX	XXX	XXX	XXX	XXX
5'-XXX	XXX	XXX	XXX	XXX	XXX	NNC	XXX	XXX	XXX	XXX	XXX	XXX
5'-XXX	XXX	XXX	XXX	XXX	NNC	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5'-XXX	XXX	XXX	XXX	NNC	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5'-XXX	XXX	XXX	NNC	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5'-XXX	XXX	NNC	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5'-XXX	NNC	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
5'-NNC	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Figure 8